

PHENIX Technical Support 2006

PHENIX WEEKLY PLANNING

1/26/06

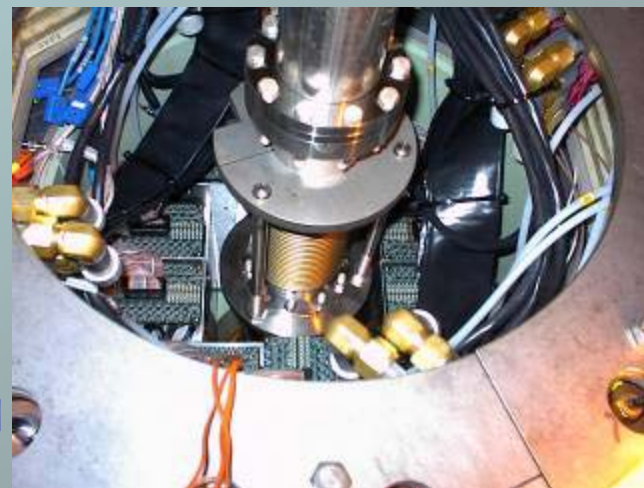
Don Lynch



PHENIX Technical Support 2006

Prep Schedule for Run 6

- BBC N&S dried, tested re-installed, final tested [DONE]
- MuTr FEE and anode purge lines dried [DONE]
- MuTr HV & LV repairs and tests [DONE]
- Install Lampshades on MMS [DONE]
- Receive MPC South (Received 1/8/06)
- Prepare EC for move to IR (carpenters) [DONE]
- Re-install seismic restraints on WC [DONE]
- Prepare MPC South (install LED's, bench elec. tests) [DONE]
- Uninstall TOF West Installation platform [DONE]
- Install MPC South [DONE]
- Install HBD rack (lower only) [TODAY]
- Move MUID collar to IR [DONE]
- Install MPC cable tray [DONE]



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Prep Schedule for Run 6

Week of Jan. 17 - Jan. 20, 2006 (MLK Holiday 1/16/06)

- Remove upper HBD I-beams, use fg unistrut for now [DONE]
- EC roll in Carpenters to do platforms [DONE]
- Pink sheets [DONE]
- MPC South installation [DONE]

Week of Jan. 23 - Jan. 27, 2006

- CM area sweep for magnet test [DONE]
- Magnet tests [DONE]
- Continue blue sheets
- Connect EC Services [DONE]
- Complete CM area HBD plumbing

Week of Jan. 30 - Feb. 3, 2006

- Install shield wall [Started]
- Move MMS North
- Install MUID collar
- Install Beam Loss Monitor
- DC repairs [Started]



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Prep Schedule for Run 6

Week of Feb. 6 - Feb. 10, 2006

- RXNP magnet tests
- Install plug door
- Start of PHENIX watch shifts
- Start flammable gas flow
- Blue ring ready for beam Feb. 6, limited IR access
- All up commissioning
- Start of Run Party

Week of Feb. 13- Feb. 17, 2006

- Yellow ring ready for beam
- All up commissioning

Week of Feb. 21 - Feb. 24, 2006 (Pres. Day Holiday 1/20/06)

- Start of run shifts

Week of Feb. 27 - Mar. 4

- Start physics runs



Bridge Water Supply/Return

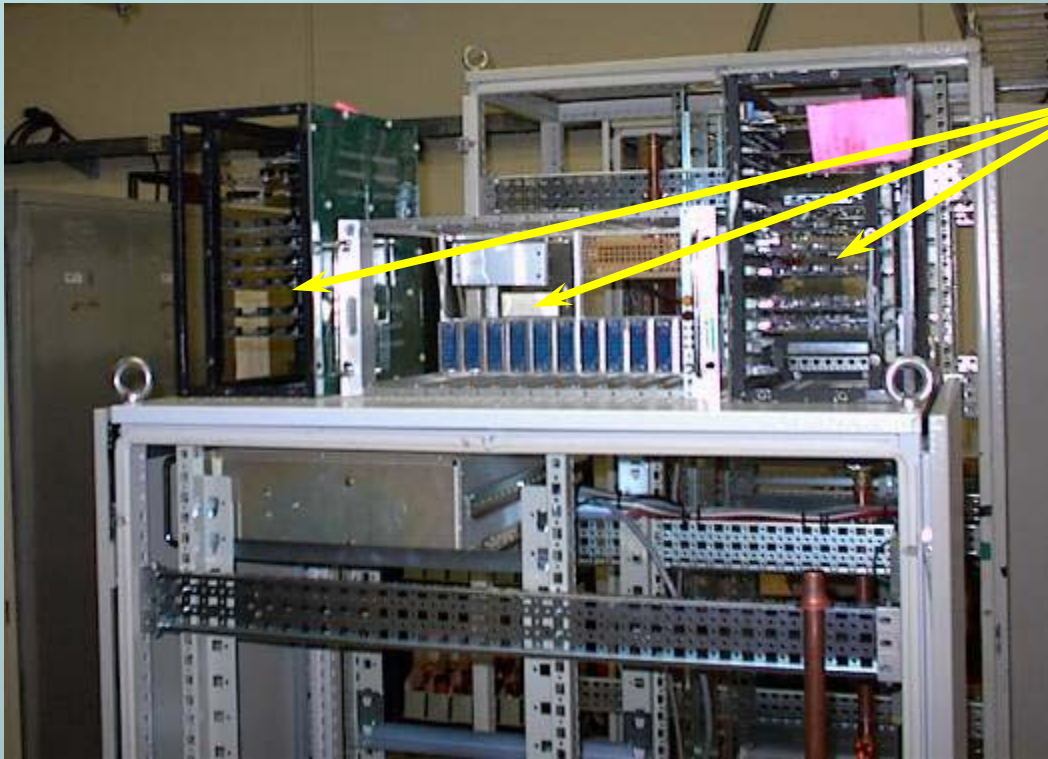


Not everything went as planned...



New supply & return water piping interfered with EC roll in. Pipes were cut out and will be rerouted in the next shutdown.

MPC Installation



MPC electronics to be on top
of MuTr rack on eyebrow

Electronics not ready yet

HBD Electronics



**HBD low voltage
and signal
electronics rack
(installed on
east-central
pedestal)**

**HBD High
Voltage Rack
(to be located
on Bridge)**



HBD Gas Supply



**HBD transparency
monitor hutch ready to
install instrumentation
when it arrives**



**TOF/HBD Gas Shared
Flow Control Rack HBD
to be single pass for
Run 6**



**Electronics rack
In Gas Mixing
House**

HBD Gas Supply



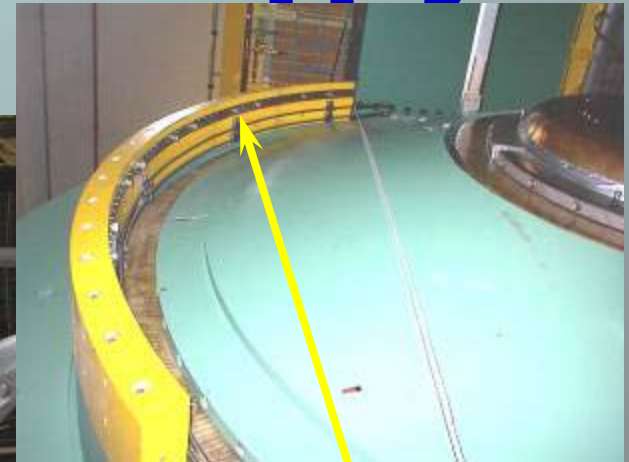
Gas Pad
Location for
CF₄ bottles



HBD Gas flow panel
Waiting for components
Then to be installed in IR

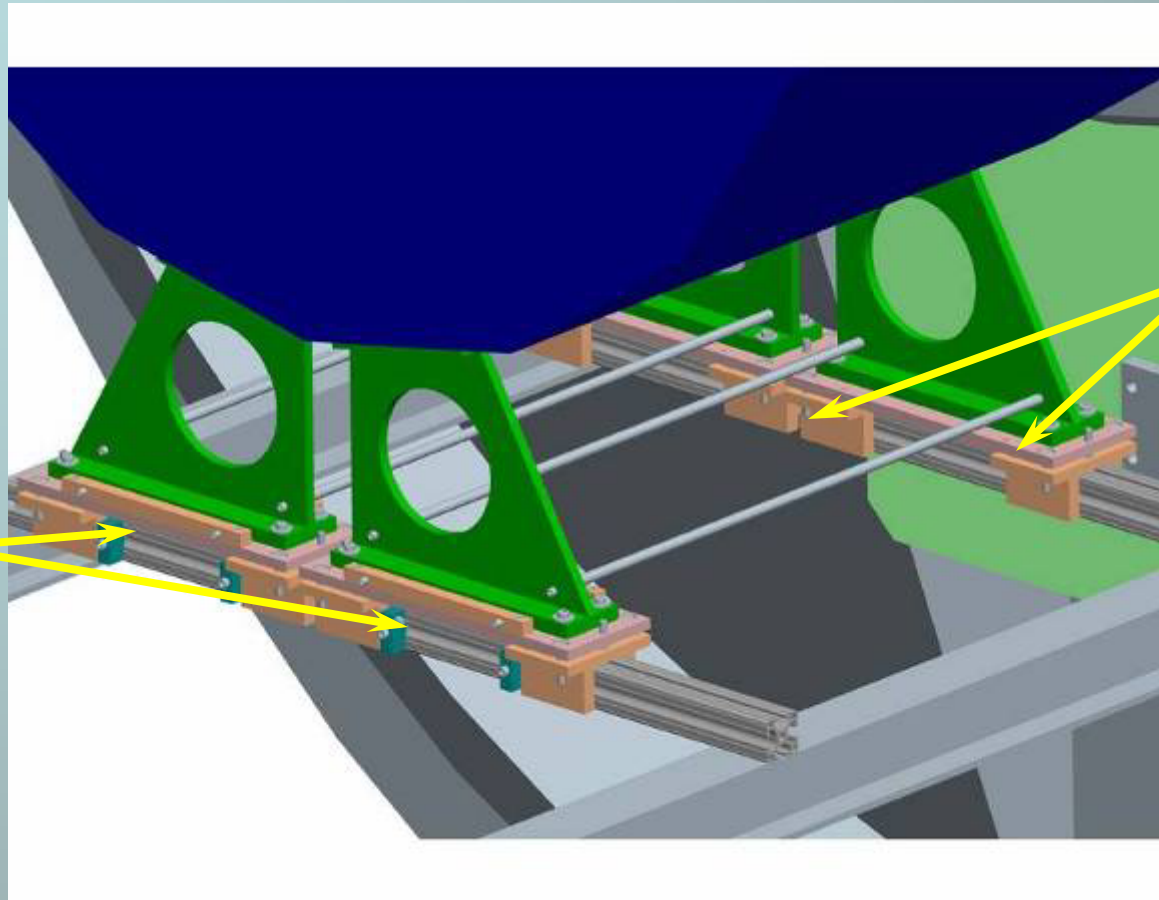


*Piping nearly complete. Flexible
lines will connect to detector*



Stainless Gas Lines to
top of CM

HBD Mechanical Support



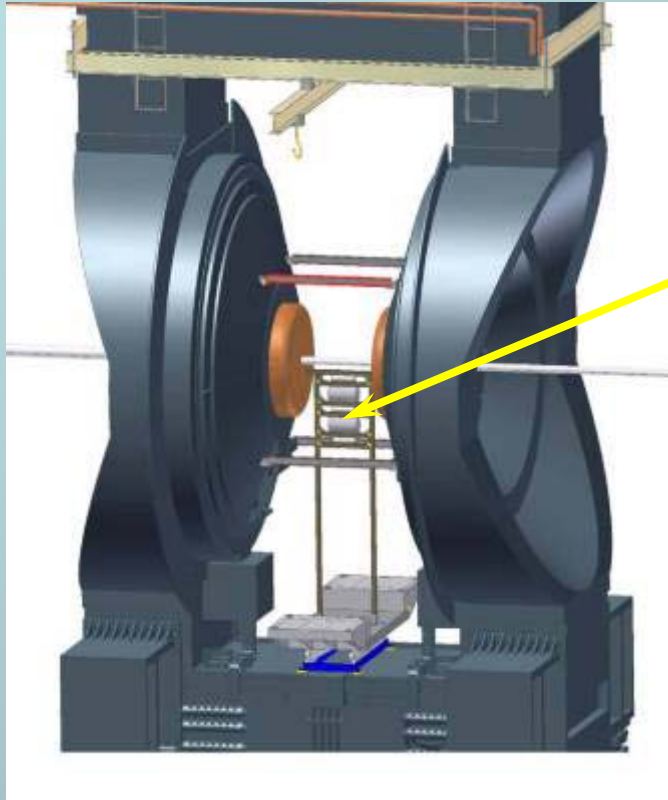
HBD Support
X, Y, Z
adjustments on
this side

HBD Support
X, Y
adjustments on
this side

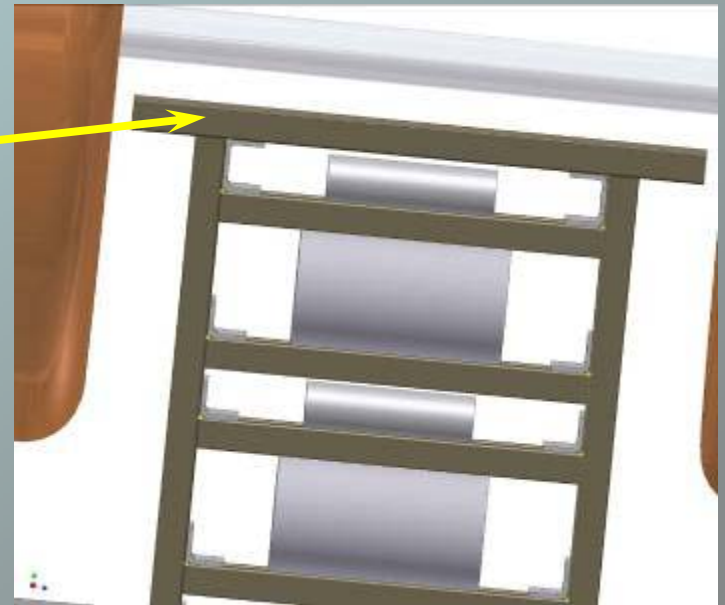
*Design of details
complete ready
for fabrication.*

*Adapters needed
for possible
installation of
prototype*

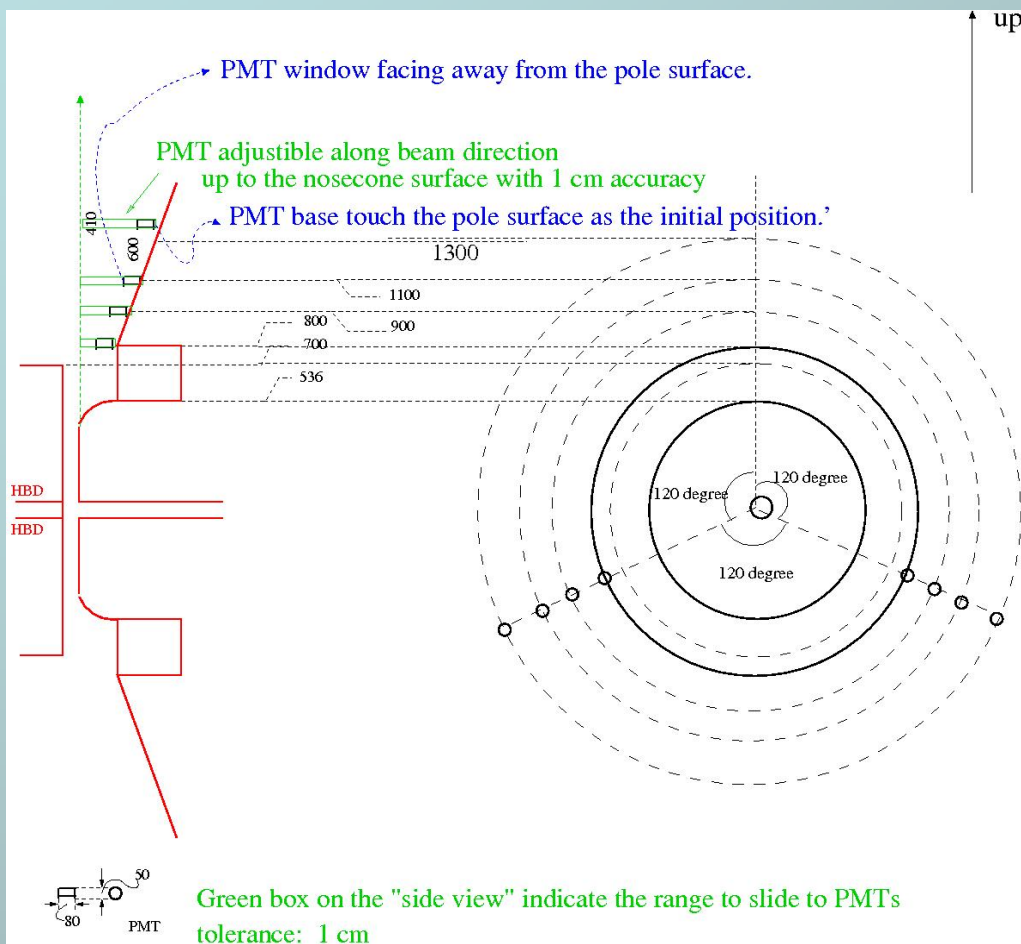
Beam Loss Monitors



BLM Stand with
BLM's and
Chipmunks



RXNP Magnet Field Tests



PMT radial position in south pole:

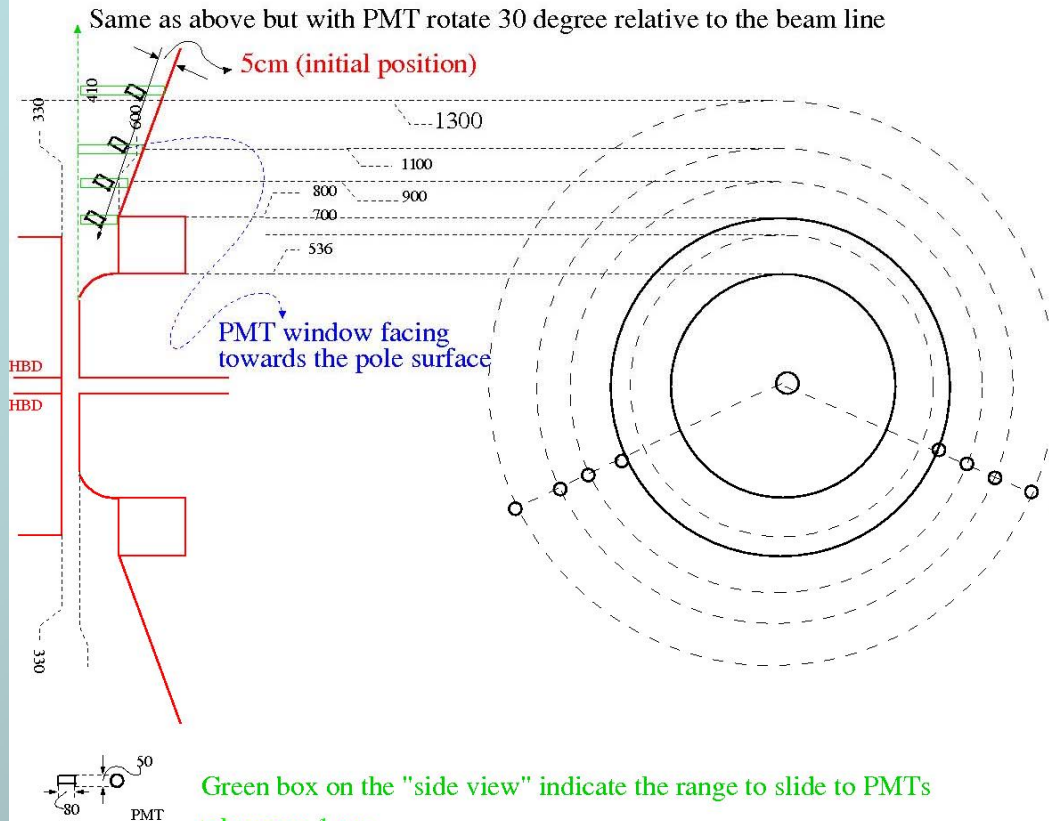
- * 80, 90, 110, 130 cm
- * 2 branch located at ± 120 degree relative to the UP direction

PMT radial position in North pole:

- * 90, 110, 130 cm
- * 2 branch located at ± 120 degree relative to the UP direction

The plot on the left is an illustration for south

RXNP Magnet Field Tests



Green box on the "side view" indicate the range to slide to PMTs
tolerance: 1 cm

PMT radial position in south pole:

- * 80, 90, 110, 130 cm
- * 2 branch located at ± 120 degree relative to the UP direction

PMT radial position in North pole:

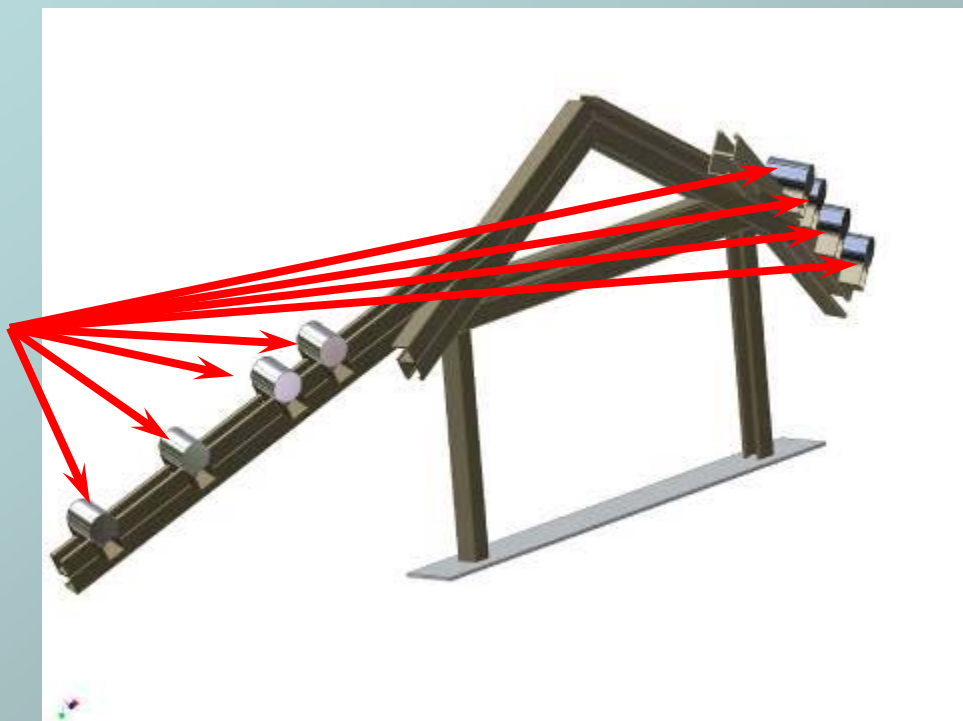
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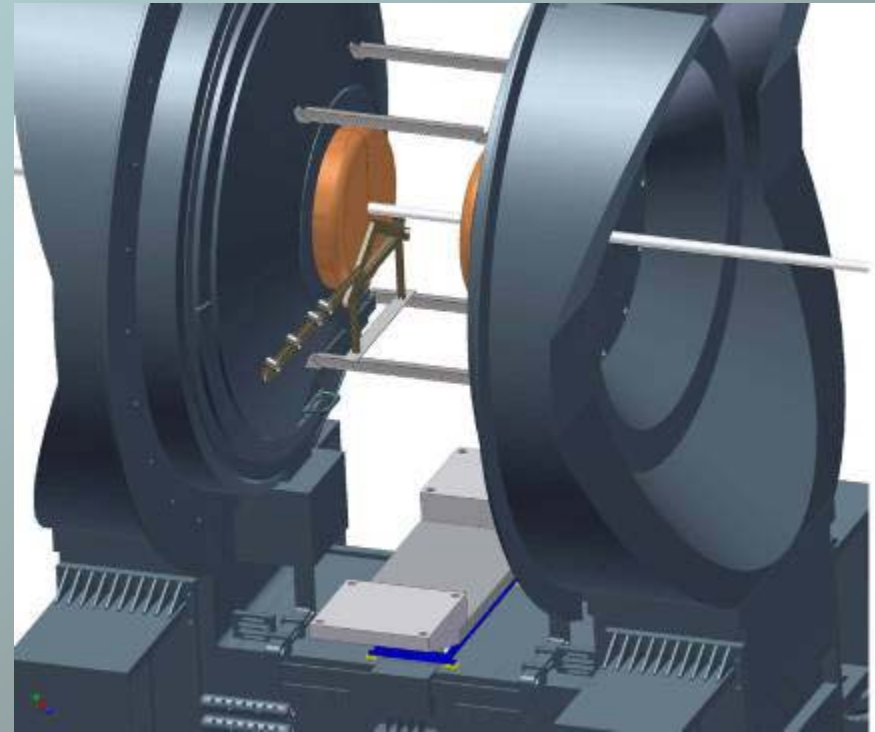
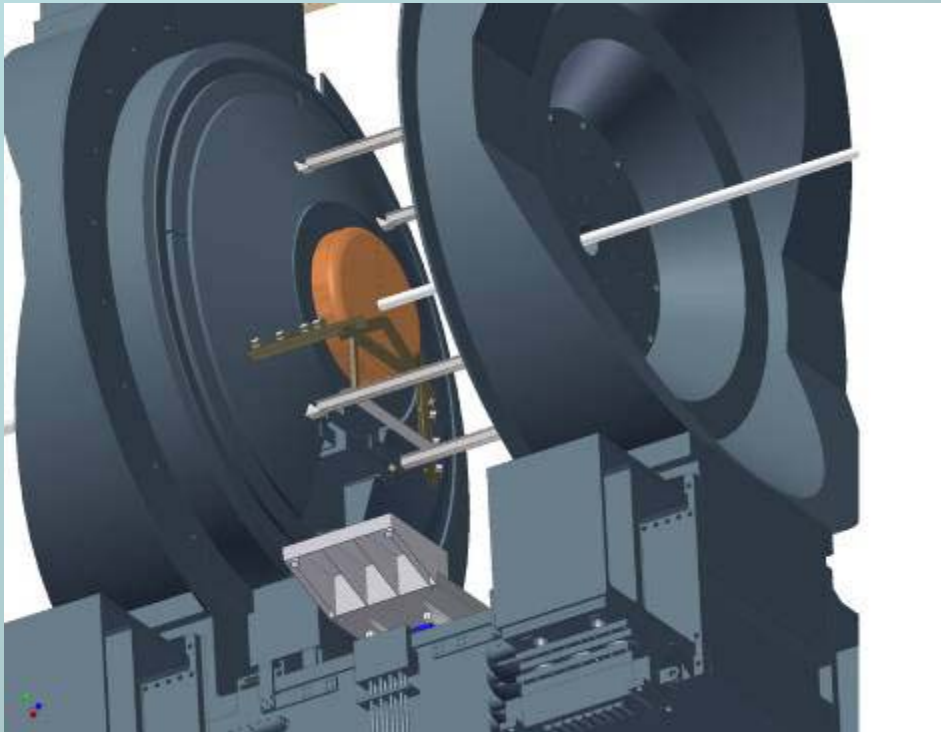
RXNP Magnet Field Tests

Made from fiberglas
unistrut with precision
cut angles. To be
supported from lower
HBD I-beams

PMT's



RXNP Magnet Field Tests



Installation

Other Projects

TOF West

- No further work until next shutdown

HBD

- All gas work inside IR to be completed prior to end of shutdown
- Will need new He bags
- Plan for installation of $\frac{1}{2}$ final detector late in run 6 using lower rack only
- Plan B - install prototype during run 6

Bridge Utilities

- No water until next summer. Shutoff valves to be closed and posted until manifolds are tested

MPC North

- New fixtures based on lessons learned from south installation

RXNP

- Magnetic field tests??

Prior to Run 6

- Build Shielding wall
- Remaining blue sheets

Postponed Shutdown 2006

- Install access platforms from EC top north and MMS
- Replace emergency fan louvres
- Rewire/add IR ceiling lights on emergency power
- Replace WC sliding platform hoisting cables
- Analyze/balance rack water distribution
- Mixing house exhaust fan maintenance

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PHENIX Engineering & Tech Support Web Pages

Links for weekly planning meeting slides, long term planning and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

